# Malla Reddy College of Engineering and Technology-------------------------------------------------------------------------------------------------------- DEPARTMENT OF COMPUTATIONAL INTELLIGENCE

**III YEAR CSE - AIML II SEM**

**COURSE: APPLICATION DEVELOPMENT - 2 COURSE CODE: R22A66933**

**DIGITAL LEAVE MANAGEMENT**

**ABSTRACT**

A digital leave management system plays a crucial role in streamlining the leave application process in educational institutions for students and staff. The system ensures a structured approach to managing leave requests, enhancing administrative efficiency.

Existing systems often involve manual processes or partially automated tools, which lack flexibility and fail to provide real-time tracking. These systems are prone to delays and errors in processing leave requests. This can lead to inefficiencies in managing attendance and approvals.

The proposed system leverages Machine Learning to enable automatic attendance tracking and leave management. It introduces modules for leave requests with supporting proofs, accommodating scenarios such as event participation or emergency leave. Students can apply for hourly, half-day, or full-day leaves, and staff requests are routed to the appropriate authorities for approval. Approved leaves are consolidated into an Excel sheet for class in-charges or HODs, ensuring seamless communication.

The system employs advanced algorithms and technologies like supervised learning models and cloud-based databases for real-time updates and secure data storage. This improves leave management accuracy and enhances overall institutional workflow.

**Keywords**: Digital leave management, Machine Learning, attendance automation, educational institutions.

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